

STATE	STATE	SHEET NO.	TOTAL SHEETS	
N.C.	15	B.22.12	1	
STATE PROJECT NO. F.A. PROJ. NO.		F. A. PROJ. NO.	DESCRIPTION	
15B.22.12			PE	
15B.22.12			CONST.	
			1	



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GENERAL NOTES

ASSUMED LIVE LOAD FOR SUPERSTRUCTURE = HL 93 OR ALTERNATE LOADING.

ASSUMED LIVE LOAD FOR EXISTING SUBSTRUCTURE = HS15.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET SN.

THE SUPERSTRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.

THE EXISTING SUPERSTRUCTURE CONSISTING OF ELEVEN PRESTRESSED CORED SLAB UNITS WITH A CLEAR ROADWAY WIDTH OF '29-3" SHALL BE REMOVED PER THE PLANS.SEE SPECIAL PROVISION FOR "PARTIAL REMOVAL OF EXISTING STRUCTURE".

CARE SHALL BE TAKEN NOT TO DAMAGE THE SUBSTRUCTURE DURING REMOVAL OF THE SUPERSTRUCTURE.IF THE SUBSTRUCTURE IS DAMAGED DURING REMOVAL IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL A REPAIR PROCEDURE FOR THE DAMAGED AREAS. REPAIRS MADE DUE TO DAMAGE DONE BY REMOVAL SHALL BE AT THE EXPENSE OF THE CONTRACTOR.NO ADDITIONAL TIME WILL BE GRANTED IN ORDER TO PERFORM REPAIRS NEEDED DUE TO REMOVAL OF THE SUPERSTRUCTURE.

REMOVAL OF THE EXISTING BRIDGE SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL INTO THE WATER. THE CONTRACTOR SHALL REMOVE THE SUPERSTRUCTURE AND SUBMIT PLANS FOR DEMOLITION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.

THE SUBSTRUCTURE OF THE EXISTING BRIDGE INDICATED ON THE PLANS IS FROM THE BEST INFORMATION AVAILABLE.SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSOEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING BRIDGE SUBSTRUCTURE SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

THIS SUPERSTRUCTURE CONTAINS THE NECESSARY CORROSION PROTECTION REQUIRED FOR A CORROSIVE SITE.

ALL INCIDENTAL REINFORCING STEEL SHALL BE EPOXY COATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

FOR REMOVAL AND STOCKPILE OF EXISTING GUARDRAIL, SEE SPECIAL PROVISIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

THIS BRIDGE MAY BE CONSTRUCTED USING TOP-DOWN CONSTRUCTION METHODS. FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.

> PROJECT NO. _ COUNTY:

FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.

FOR CURING CONCRETE, SEE SPECIAL PROVISIONS.

FOR SECURING OF VESSELS, SEE SPECIAL PROVISIONS.

FOR METAL BRIDGE RAIL, SEE SPECIAL PROVISIONS.

FOR STABILIZATION OF EXISTING SPAN DURING CONSTRUCTION, SEE SPECIAL PROVISIONS.

DEC	DECK REPAIR BRIDGE NO. <u>96</u>						
	STATE OF NORTH CAROLINA						
DE	DEPARTMENT OF TRANSPORTATION						
	raleigh						
	TYPICAL SECTION.						
STACTNG DETATIS							
GENERAL NUTES							
REVISIONS SHEET NO.							
NO.	BY	DATE	NO.	BY	DATE	S-2	
1			3			TOTAL SHEETS	
2			4			l (

15B.22.12

CARTERET

STD. NO. 21" PCS2_30_90S

ASSEMBLED BY : T. M. SHERRILL DATE : 10/12 CHECKED BY : E. NELSON DATE : 10/12 DRAWN BY : DGE 5/09 REV. 12/11 MAA/AA CHECKED BY : BCH 6/09

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	3'-0" × 1'-9"	
40' & 45' CORED SLAB UNIT	0.6″ØL.R. STRAND	
CAMBER (SLAB ALONE IN PLACE)	11⁄4″ ♦	
DEFLECTION DUE TO SUPERIMPOSED DEAD LOAD	¹ ∕8″ ∳	
FINAL CAMBER	11⁄8″ ♦	
** INCLUDES FUTURE WEARING SURF	ACE	

COR	ED	SLABS	S REQ	UIRED
		NUMBER	LENGTH	TOTAL LI
45' UNI	Т			
EXTERIOR	C.S.	26	45'-0"	1170′-
INTERIOR	C.S.	104	45'-0"	46801
TOTAL		130	45'-0"	5850'

43,950

NOTES

- ALL PRESTRESSING STRANDS SHALL BE 7-WIRE LOW RELAXATION GRADE 270 STRANDS AND SHALL CONFORM TO AASHTO M203 EXCEPT FOR SAMPLING REQUIREMENTS WHICH SHALL BE IN ACCORDANCE WITH THE STANDARD ALL REINFORCING STEEL CAST WITH THE CORED SLAB SECTIONS SHALL BE GRADE 60 AND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR PRESTRESSED CONCRETE CORED SLABS. RECESSES FOR TRANSVERSE STRANDS SHALL BE GROUTED AFTER THE TENSIONING OF THE STRANDS. THE $2^{\prime}\!/_{2}^{\prime\prime} \varnothing$ dowel holes at fixed ends of slab sections shall be filled with non-shrink grout. The $2^{\prime}\!/_{2}^{\prime\prime} \varnothing$ dowel holes at expansion ends of slab sections shall be filled with joint sealer to $1^{\prime}\!/_{2}^{\prime\prime}$ above the top of dowels, and then filled with non-shrink grout. THE BACKER RODS SHALL CONFORM TO THE REQUIREMENTS OF TYPE M BOND BREAKER.SEE SECTION 1028 OF THE STANDARD SPECIFICATIONS. WHEN CORED SLABS ARE CAST, AN INTERNAL HOLD-DOWN SYSTEM SHALL BE EMPLOYED TO PREVENT VOIDS FROM RISING OR MOVING SIDEWAYS.AT LEAST SIX WEEKS PRIOR TO CASTING CORED SLABS.THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR REVIEW AND COMMENT, DETAILED DRAWINGS OF THE PROPOSED HOLD-DOWN SYSTEM. IN ADDITION TO STRUCTURAL DETAILS, LOCATION AND SPACING OF THE HOLD-DOWNS SHALL BE INDICATED. PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH THE CORED SLAB UNIT APPLY EPOXY PROTECTIVE COATING TO CORED SLAB UNIT ENDS. TRANSVERSE POST TENSIONING OF THE CORED SLAB UNITS SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE TRANSFER OF LOAD FROM THE ANCHORAGES TO THE CORED SLAB UNIT SHALL BE DONE WHEN THE CONCRETE HAS REACHED A COMPRESSIVE STRENGTH OF NOT LESS THAN THE REOUIRED STRENGTH SHOWN IN THE "CONCRETE RELEASE STRENGTH" TABLE. FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS. PRESTRESSED CONCRETE CORED SLAB UNITS ARE DESIGNED FOR O PSI TENSION IN THE PRECOMPRESSED TENSILE ZONE UNDER ALL LOADING CONDITIONS. PRESTRESSED CONCRETE CORED SLAB UNITS SHALL CONTAIN CALCIUM NITRITE CORROSION INHIBITOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. STEEL GUARDRAIL POST AND BASE PLATES SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. BAR TYPES <u>S1 1'-9''</u> <u>S2 2'-8''</u> IS SI 3 62 ALL BAR DIMENSIONS ARE OUT TO OUT 432 14 <u>15</u>B.22.12 PROJECT NO. CARTERET COUNTY 96 BRIDGE NO: STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RAI FIGH STANDARD 3'-O'' X 1'-9'' PRESTRESSED CONCRETE CORED SLAB UNIT 90° SKEW ENGT⊢ -0″ .0″
 - REVISIONS SHEET NO S-5 BY: DATE: DATE: BY: TOTAL SHEETS 7

STD. NO. 21" PCS3_30_90S

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